

messages each have an abundance which reflects the relative representation of specific nucleic acid messages within the sample.

43. The multi-gene expression profile of claim 42, wherein said amplified specific nucleic acid messages have been amplified simultaneously with RNA polymerase and primer linked to RNA polymerase promoter.

44. The multi-gene expression profile of claim 42, wherein said amplified specific nucleic acid messages comprise aRNA.

C2 45. The multi-gene expression profile of claim 42, wherein said amplified specific nucleic acid messages comprise cDNA.

46. The multi-gene expression profile of claim 42, wherein said amplified specific nucleic acid messages are hybridized to a hybridizing target.

47. The multi-gene expression profile of claim 46, wherein said amplified specific nucleic acid messages are hybridized to a hybridizing target by northern or Southern blot.

48. The multi-gene expression profile of claim 42, wherein said sample is a mammalian cell.

49. The multi-gene expression profile of claim 48, wherein said sample is a cell from brain, spleen, bone, heart, vascular tissue, lung, kidney, liver pituitary, endocrine gland, lymph node, or tumor.

50. The multi-gene expression profile of claim 48, wherein said sample is a blood cell.

51. The multi-gene expression profile of claim 48, wherein said sample is a neural cell.

52. The multi-gene expression profile of claim 48, wherein said sample is a single cell.

53. A multi-gene expression profile of a sample comprising a collection of linearly amplified specific nucleic acid messages, wherein said amplified specific nucleic acid messages have been amplified simultaneously with RNA polymerase and primer linked to RNA polymerase promoter.

54. The multi-gene expression profile of claim 53, wherein said amplified specific nucleic acid messages are hybridized to a hybridizing target.

---